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Docket No.: 1503-0187PUS1

Application No. 10/563,911
Amendment dated December 31, 2007
Reply to Office Action of June 29, 2006

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A light-emitting diode (LED) LED-illuminator or an equivalent illuminator with a semiconductor light source sources for a headgear or equivalent with a visor, said illuminator comprising one or more comprising:

light emitting semiconductor light sources (4), especially LEDs (Light Emitting Diode), a frame (1, 2, 11, 12), an electronics control part (5) for controlling the semiconductor light sources, and fastening parts for fastening the illuminator, wherein the semiconductor light sources are being directed in at least one given direction, such as towards at least one of a working object and/or and area, wherein:

characterized in that

the illuminator is a unitary illuminator module, wherein module:

the semiconductor light sources are fitted in a common, preferably rectangular connection part (3), side by side and directed towards at least one of the working object and/or area, and area; and

the frame consists of has two frame parts (1, 2, 11, 12) folded one over the against each other so that at least a part of the visor remains between the frame parts, and the frame parts being attached to each other and the visor which can be attached to the headgear by means of releasable quick coupling parts, preferably snap-on bayonet catches.

2. (Currently Amended) A The LED illuminator according to claim 1, characterized in that wherein the module is also provided with UV-ultraviolet (UV) LEDs so that at least some of the LEDs are UV LEDs, especially for use by authorities.

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3. (Currently Amended) A-The LED illuminator according to claim 1, characterized in that wherein the module is also provided with IR-infrared (IR) LEDs so that at least some of the LEDs are IR LEDs.

4. (Currently Amended) A-The LED illuminator according to claim 1, characterized in that it comprises further comprising a switch (6)-placed in conjunction with the frame.

5. (Currently Amended) A-The LED illuminator according to claim 1, characterized in that it wherein the illuminator is a water-tight (IP class 55 and upwards) encapsulated LED unit designed to be attached to protective helmets (motor vehicle drivers' helmets, miners' helmets, professional divers' helmets).

6. (Currently Amended) A-The LED illuminator according to claim 1, characterized in that it comprises further comprising different and differently colored semiconductor light sources, which work either together or separately.

7. (Cancelled)

8. (New) The LED illuminator according to claim 1, wherein the common connection part is rectangular.

9. (New) The LED illuminator according to claim 1, wherein the releasable quick coupling parts are snap-on bayonet catches.

10. (New) The LED illuminator according to claim 5, wherein the protective helmets are motor vehicle drivers' helmets, miners' helmets, or professional divers' helmets.